

Claims:

1. A coating composition comprising an effect pigment, a small particle size pigment and at least one flop-enhancing agent selected from the group consisting of optionally substituted halogenated copper phthalocyanines, indanthrones and carbazole dioxazines.
- 5 2. A coating composition of claim 1, wherein the composition comprises mixtures having more than one flop-enhancing agent selected from the group consisting of optionally substituted halogenated copper phthalocyanines, indanthrones and carbazole dioxazines.
- 10 3. A coating composition of claim 1, wherein at least one flop-enhancing agent is a halogenated copper phthalocyanine compound with one or more substituents selected from the group consisting of -NR₁R₂, C₁-C₁₀alkyl and -X-NR₁R₂, wherein R₁ and R₂ are independently hydrogen, C₁-C₁₀alkyl or -X-NR₁R₂, R₁ and R₂ are independently hydrogen or C₁-C₁₀alkyl, and X is C₁-C₁₀alkylene.
- 15 4. A coating composition of claim 3, wherein at least one flop-enhancing agent is an indanthrone with one or more substituents selected from the group consisting of halogen, -NR₁R₂, C₁-C₁₀alkyl and -X-NR₁R₂, wherein R₁ and R₂ are independently hydrogen, C₁-C₁₀alkyl or -NR₁R₂, R₁ and R₂ are independently hydrogen or C₁-C₁₀alkyl, and X is C₁-C₁₀alkylene.
- 20 5. A coating composition of claim 3, wherein at least one flop-enhancing agent is a carbazole dioxazine with one or more substituents selected from the group consisting of halogen, -NR₁R₂, C₁-C₁₀alkyl and -X-NR₁R₂, wherein R₁ and R₂ are independently hydrogen, C₁-C₁₀alkyl or -X-NR₁R₂, R₁ and R₂ are independently hydrogen or C₁-C₁₀alkyl, and X is C₁-C₁₀alkylene.
- 25 6. A coating composition of claim 1, comprising at least one halogenated copper phthalocyanine, an indanthrone and a carbazole dioxazine compound, each of which are unsubstituted or have one or more substituents selected from the group consisting of halogen, -NR₁R₂, C₁-C₁₀alkyl and -X-NR₁R₂, wherein R₁ and R₂ are independently hydrogen, C₁-C₁₀alkyl or -X-NR₁R₂, R₁ and R₂ are independently hydrogen or C₁-C₁₀alkyl, and X is C₁-C₁₀alkylene.
- 30 7. A coating composition of claim 1, wherein the small particle size pigment is a 1,4-diketo-3,6-diaryl-pyrrolopyrrole, a quinacridone, a quinacridonequinone or a solid solution

pigment.

8. A coating compositions of claim 7, wherein the small particle size pigment is selected from the group consisting of β -quinacridone, 2,9-dichloroquinacridone, 2,9-dimethylquinacridone, 1,4-diketo-3,6-di(4-chlorophenyl)-pyrrolo[3,4-c]pyrrole,
- 5 1,4-diketo-3,6-di(biphenyl-1-yl)-pyrrolo[3,4-c]pyrrole, 2,9-dichloroquinacridone/1,4-diketo-3,6-di(4-chlorophenyl)-pyrrolo[3,4-c]pyrrole solid solution, and 2,9-dichloroquinacridone/1,4-diketo-3,6-diphenyl-pyrrolo[3,4-c]pyrrole/1,4-diketo-3,6-di(4-chlorophenyl)-pyrrolo[3,4-c]pyrrole solid solution of specific surface area from 40 to 100 m^2/g , and at least one of the flop-enhancing agents is a halogenated copper
- 10 phthalocyanine, indanthrone or carbazole dioxazine compound, wherein the benzene rings of the flop-enhancing agents are unsubstituted or substituted by one or more substituents selected from the group consisting of halogen, -NR₁R₂, C₁-C₁₀alkyl and -X-NR₁R₂, wherein R₁ and R₂ are independently hydrogen, C₁-C₁₀alkyl or -X-NR₁R₂, R₁ and R₂ are independently hydrogen or C₁-C₁₀alkyl, and X is C₁-C₁₀alkylene.
- 15 9. A coating composition of claim 8, wherein the small particle size pigment is a 2,9-dichloroquinacridone/1,4-diketo-3,6-di(4-chlorophenyl)-pyrrolo[3,4-c]pyrrole solid solution and at least one flop-enhancing agent is a halogenated copper phthalocyanine compound.
10. A pigment composition which comprises a transparent pigment and from 0.1 to 10% by weight, based on the weight of the composition, of at least one flop-enhancing agent selected
- 20 from the group consisting of halogenated copper phthalocyanine, indanthrone or carbazole dioxazine compounds or mixtures thereof, wherein the benzene rings of the flop-enhancing indanthrone or carbazole dioxazine agents are unsubstituted or substituted by one or more substituents selected from halogen, -NR₁R₂, C₁-C₁₀alkyl and -X-NR₁R₂, wherein R₁ and R₂ are independently hydrogen, C₁-C₁₀alkyl or -X-NR₁R₂, R₁ and R₂ are independently hydrogen or C₁-C₁₀alkyl, and X is C₁-C₁₀alkylene.
- 25 11. A pigment composition of claim 10, wherein at least one flop-enhancing agent is a halogenated copper phthalocyanine wherein the benzene rings of the flop-enhancing agent are unsubstituted or substituted by one or more substituents selected from the group consisting of -NR₁R₂, C₁-C₁₀alkyl and -X-NR₁R₂, wherein R₁ and R₂ are independently hydrogen, C₁-C₁₀alkyl or -X-NR₁R₂, R₁ and R₂ are independently hydrogen or C₁-C₁₀alkyl, and X is C₁-C₁₀alkylene.
- 30 12. A pigment composition of claim 11, further comprising a second flop-enhancing agent,

- wherein the second flop-enhancing agent is an indanthrone , wherein the benzene ring of the flop-enhancing indanthrone is unsubstituted or substituted by one or more substituents selected from the group consisting of halogen, -NR₁R₂, C₁-C₁₀alkyl and -X-NR₁R₂, wherein R₁ and R₂ are independently hydrogen, C₁-C₁₀alkyl or -X-NR₁R₂, R₁ and R₂ are independently 5 hydrogen or C₁-C₁₀alkyl, and X is C₁-C₁₀alkylene.
13. A pigment composition of claim 11, further comprising a second flop-enhancing agent wherein the second flop-enhancing agent is carbazole dioxazine, wherein the benzene ring of the flop-enhancing carbazole dioxazine is unsubstituted or substituted by one or more substituents selected from the group consisting of halogen, -NR₁R₂, C₁-C₁₀alkyl and -X-NR₁R₂, wherein R₁ and R₂ are independently hydrogen, C₁-C₁₀alkyl or -X-NR₁R₂, R₁ and R₂ are independently hydrogen or C₁-C₁₀alkyl, and X is C₁-C₁₀alkylene. 10
14. A pigment composition of claim 10, comprising a halogenated copper phthalocyanine, an indanthrone and at least one carbazole dioxazine compound flop-enhancing agents, wherein the benzene rings of the indanthrone and carbazole dioxazine flop-enhancing agents are 15 unsubstituted or substituted by one or more substituents selected from the group consisting of halogen, -NR₁R₂, C₁-C₁₀alkyl and -X-NR₁R₂, wherein R₁ and R₂ are independently hydrogen, C₁-C₁₀alkyl or -X-NR₁R₂, R₁ and R₂ are independently hydrogen or C₁-C₁₀alkyl, and X is C₁-C₁₀alkylene, wherein the benzene ring of the halogenated copper phthalocyanine flop-enhancing agent is unsubstituted or substituted by one or more substituents selected from the 20 group consisting of NR₁R₂, C₁-C₁₀alkyl and -X-NR₁R₂, wherein R₁ and R₂ are independently hydrogen, C₁-C₁₀alkyl or -X-NR₁R₂, R₁ and R₂ are independently hydrogen or C₁-C₁₀alkyl, and X is C₁-C₁₀alkylene. 25
15. A pigment composition of claim 10, wherein the transparent pigment is a 1,4-diketo-3,6-diaryl-pyrrolopyrrole, a quinacridone, a quinacridonequinone or a solid solution pigment.
16. A pigment composition of claim 10, further comprising an effect pigment.
17. A pigment composition of claim 15 wherein the transparent pigment is β-quinacridone, 2,9-dimethylquinacridone, 1,4-diketo-3,6-di(4-chlorophenyl)-pyrrolo[3,4-c]pyrrole, 1,4-diketo-3,6-di(biphenyl-1-yl)-pyrrolo[3,4-c]pyrrole, 30 2,9-dichloroquinacridone/1,4-diketo-3,6-di(4-chlorophenyl)-pyrrolo[3,4-c]pyrrole solid solution or 2,9-dichloroquinacridone/1,4-diketo-3,6-diphenyl-pyrrolo[3,4-c]pyrrole/1,4-diketo-3,6-di(4-chlorophenyl)-pyrrolo[3,4-c]pyrrole solid solution.

- 18.** A pigment composition of claim 17, wherein the transparent pigment is a 2,9-dichloroquinacridone/1,4-diketo-3,6-di(4-chlorophenyl)-pyrrolo[3,4-c]pyrrole solid solution and the flop-enhancing agent is Pigment Green 7.
- 19.** A pigment composition of claim 17, wherein the transparent pigment is
5 2,9-dichloroquinacridone/1,4-diketo-3,6-di(4-chlorophenyl)-pyrrolo[3,4-c]pyrrole solid solution and the flop-enhancing agent is Pigment Green 36.
- 20.** A pigment composition of claim 15, which further comprises a rheology improving agent selected from the group consisting of pyrazolylmethylquinacridone, aluminum quinacridone monosulfonate and mixtures thereof.
- 10 **21.** A method of enhancing the flop of a polymeric coating containing an effect pigment and a transparent pigment, which comprises incorporating a flop-enhancing agent into the polymeric coating, wherein the flop-enhancing agent is selected from the group consisting of halogenated copper phthalocyanine, indanthrone or carbazole dioxazine compounds or mixtures thereof.
- 22.** A coating composition of claim 1, wherein the effect pigment is selected from the group
15 consisting of coated micas, uncoated micas, aluminum flakes, multilayered color shifting flake pigments, and graphite flakes.